Topical Preparation





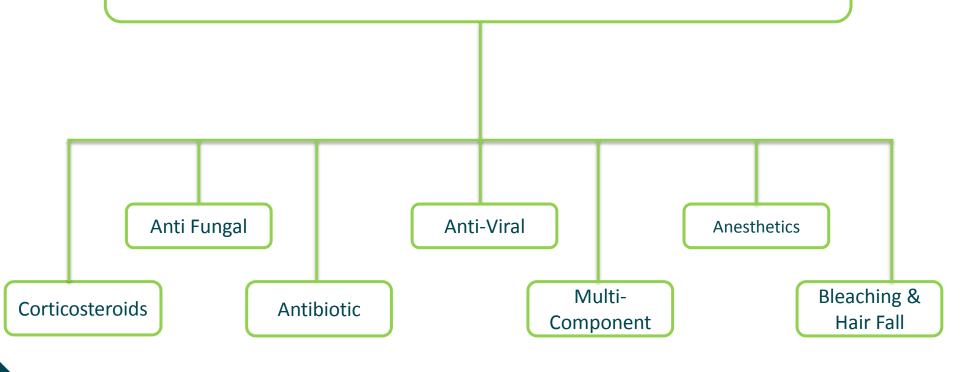
Agenda

- 1-Topical Preparation For Skin Conditions
- 2-Topical Preparation For Vagina Conditions
- 3-Topical Preparation For Eye Conditions
- 4-Topical Preparation For Nasal Conditions
- 5-Miscellaneous Topical Preparation





Topical Preparation For Skin Conditions







Main Application:

- 1-Anti-Inflammatory
- 2-Anti-Pruritic
- 3-Sever Napkin Dermatitis
- 4-Infantil Eczema
- 5-Seborrheic Dermatitis
- 6-Alopecia Areata, Psoriasis, Vitiligo
- 7-Combined with Bleaching Preparation
- 8-skin transplantation





Contra-Indicated:

- 1-Viral Infection of Skin as Chicken Pox
- 2-Bacterial, Tuberculosis or Syphilitic Skin Lesion
- 3-Cutaneous Reaction to Vaccination

Dosage Forms:

- 1-Cream Suitable For Acute & Wet Lesion & Napkin Dermatitis Suitable Dosage Form For Face, used For Suitable Duration Rapid Absorbed, Mild to Moderate Effect
- 2-Ointment Suitable For Chronic Dry Lesions
- 3-Gel & Solution Good in Hairy Area
- 4-Lotion Suitable For Large Area



The Main Side Effects:

1-Bleaching Effect

N.B used in whitening as Pigmanorm, Dermovate

2-Hirsutism

N.B used in Alopecia Areata as Betnovate Scalp

3-ImmunoSuppressive Effect

N.B used in Skin Transplantation

4-Thinning of The Skin

5-H.P.A Axis Suppression (Hypothalamus Pituitary Adrenal Cortex)







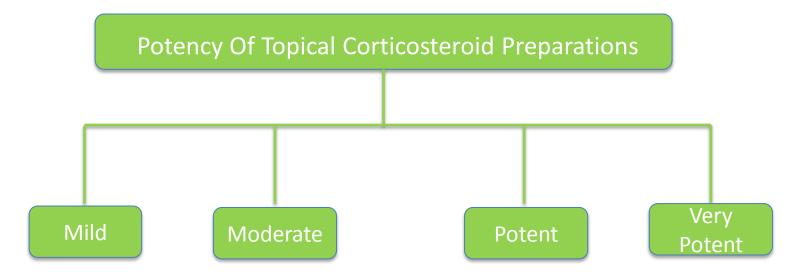
Precautions & Counseling With Dispensing:

- 1-Avoid Long Term Use
- 2-Avoid Contact With Eye
- 3-Avoid Direct Contact With Infected Skin
- 4-Combination with Anti-Biotic or Anti-Fungal stop after 5 days

Special Precautions & Counseling For Children

- 1-Short Duration as possible (3 5 days) in Acute Case
- 2-Chronic must choice mild
- 3-Thin Layer of Mild to Moderate Type
- 4-If Potent Type With Low Systemic Effect Give Once Daily
- EX.Mometasone (Elecom)









Mild Potency Corticosteroids:

- 1-Hydrocortisone Acetate.(Alfacort, Cortiderm)
- 2-Alcometasone (perderm)
- 3-Flumetasone.(Locacortene & Locacortene Vioform)
- 4-Triamcenolone (low Conc.)





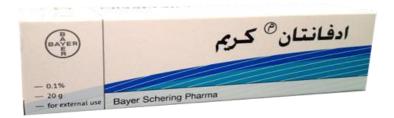




Moderate Potency Corticosteroids:

- 1-Hydrocortisone Butyrate (Locoid)
- 2-Betamethasone Valerate.(Betnovate)
- 3-Methyl Prednisolone (Advantan)
- 4-Triamcenolone (Med. Conc.)









Potent Corticosteroids:

- 1-Betamethasone Diprobionate (Diprosone)
- 2-Mometasone.(Elocom, Elica, Metaz)
- 3-Fluticasone.(Cutivate)
- 4-Triamcenolone (High Conc.)



Very Potent Corticosteroids : Clobetasol.(Dermovate)























Potency affected by:

- 1-Salt (Hydrocortisone Acetate, Hydrocortisone Butyrate)
- 2-Conc. (Triamcenolone (low Conc.), Triamcenolone (Med. Conc.)
- 3-Dosage Form.(Solution, Lotion, Gel, Cream, Ointment)

Cream: used for face, with mild to moderate effect

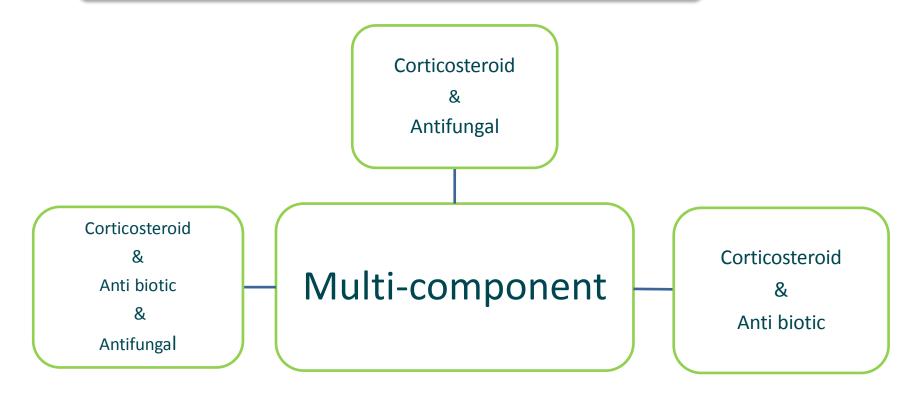
Ointment: used for dry skin area, delayed in absorption potent effect







Topical Multi-Component Preparations





















Definition:

Skin condition caused by inflammation of the skin Eczema causes skin to become itchy, red &dry even cracked Eczema appear at any part of the body People often also call it Dermatitis

Factors Trigger Eczema:

Stress

Heat & Sweat

Cold & Dry Climate

Contact With Irritating Substance

Dry Skin





Eczema is not contagious (غير معدي)

Eczema run in families due to genetic role

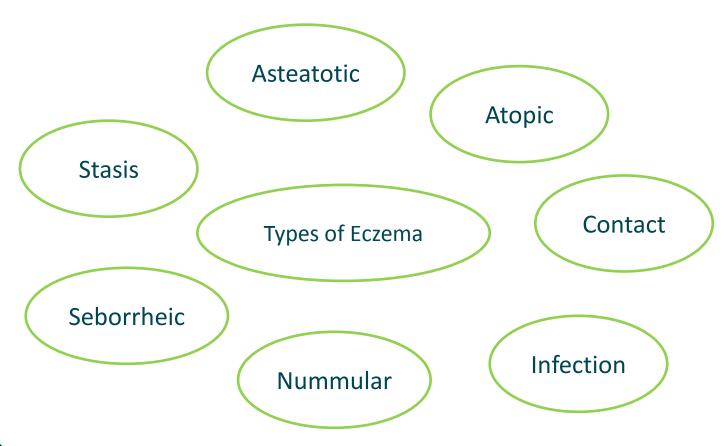
Major Risk Factors Patient Who Has:

1-Asthma

2-Seasonal Allergies











Types of Eczema:

- 1-Atopic Eczema
 Atopic Eczema is worsen by soap, rough clothing,
- 2-Contact Eczema
 There are two type:
 a-Irritant Eczema (Wife Hand Dermatitis)
 b-Allergic Eczema



matitis #ADAN

These types of eczema can develop after a substance damages the skin include chemical & frequent hand washing Contact Dermatitis can develop after person touch allergy trigger as cosmetics





Types of Eczema:

3-Infection Eczema

4-Seborrheic Dermatitis
This type of eczema is better known as dandruff
Infant patient affect the scalp (Cradle Cap, Milk Crust)
Adult patient affect eye brow, side of nose
area behind the ear, center of chest

5-Nummular Dermatitis
Factor trigger is climate (cold & dry air)





Types of Eczema:

6-Stasis Eczema

This type of eczema can develop in people when the veins in their lower legs don't properly return blood to their heart



7-Asteatotic Eczema
The lower extremities in elderly persons
secondary to aging, dehydrated skin, and malnutrition
Asteatotic eczema in neurologic disorders





Stages of Eczema:

1-Acute Stage ...Itching , Redness , Swelling

2-Sub Acute Stage .. Semi Scale

3-Chronic Stage ... Thickening & Pigmented





Line of Treatment for Stasis & Asteatotic &

Nummular Eczema:

- 1-Remove The Cause
- 2-Emollient ...Lipobase, Lipotic
- 3-Systemic Anti-Histamine



Supportive Treatment:

- 1-Ginko-Biloba to improve blood circulation
- 2-Foot-Bath





Lines of Treatment for Acute Stage of Dry Eczema:

- 1- Remove The Cause
- 2-Topical Corticosteroid
- 3-Emollient
- 4-Systemic Anti-Histamine
 In sub acute and presence of thin scales used Keratolyitc





Lines of Treatment for Acute Stage of Wet Eczema:

- 1- Remove The Cause
- 2-Anti-Septic Cleansing
- 3-Topical Corticosteroid as Combination mainly with Anti-Biotic
- 4-Systemic Anti-Histamine
- 5-Systemic Anti-Infection





Lines of Treatment for Atopic Eczema:

- 1- According to dry or wet choice the suitable lines of treatment
- 2- Calcineurin Inhibitor Drugs

Pimecrolimus (1.0%)(Elidel)



Tacrolimus (0.03 and 0.1%)(Protopic)

N.B If has scale used emollient in thick layer as Cetaphil ,Atoderm pp





Lines of Treatment for Seborrheic Dermatitis:

N.B Consider Cradle Cap after 6 months from birth

1-Shampo...ABC Derm

2-Emollient...Baby Oil, Olive Oil used at Night

3-Topical Corticosteroid by physician if needed



But in Adult
Used SeboRegulator Shampoo





Antifungal

Azole

Allylamine

Polyene





Imidazole

Azole

Triazole





Sertaconazole
Topical
Dermofix

Clioquinol Topical
Betnovate -C

Ketoconazole
Topical &Systemic

Imidazole

Clotrimazole
Topical
Canesten

Miconazole
Topical
Daktarin

Econazole
Topical
Pevaryl

Isoconazole
Topical
Travacort





Ketoconazole available in systemic and topical dosage form Used for hair as shampoo, frequency of dose twice per week Used for skin, frequency of dose daily

Econazole available in topical dosage form as Pevaryl Econazole has some antibacterial effect

Clotrimazole available in topical dosage form as Canesten Clotrimazole is category B





Miconazole

Available in topical dosage form

Example Daktarin Oral Gel

Dose Of Daktarin Oral Gel:







Fluconazole Diflucan

Triazole Systemic

> Itraconazole Sporanox





Fluconazole

Official Dose :Once Weekly

Wide Therapeutic Index 100-800 mg /Daily

Best Choice For Cryptococcal Meningitis

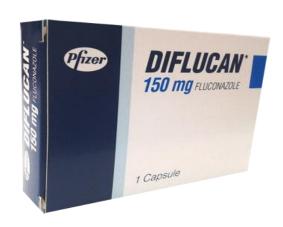
Used for skin & mucous fungal infection

Less affected by food but affected by PH

Side Effect Itching ,Dark Spot

Duration of Treatment: Short duration to avoid increase in liver

enzyme







Itraconazole

Available in 4 cap used for vaginitis & 15 cap used for skin fungal infection Therapeutic Index 100-400 mg /Day

Official Dose: 2 Cap Twice Daily Or 4 Cap One Shot ... Vaginitis

1 Cap once Or Twice daily....Skin

Best Choice For **Tinea Versicolor Less affected on liver enzyme**







Butenafine

Derfina gel , spray Once Daily Terbinafine Lamisil

Allylamine

Amorolifine

Leceuryl lequer

Naftifine Exodril





Amorolifine

Drug of Choice For Onychomycosis

Dose :Once Weekly









Terbinafine

- Class B Pregnant
- Dose: Once or Twice Daily
- Side Effect: Headache & Gastric Pain
- Change The Taste Controlled By The Gum







Nystatin

- Local Effect Only
- Ex.Mycostat
- 1 Dropper = 100000 unit
- Dose :Below 1 year 0.5 dropper
 Above 1 year 0.75 dropper
 Adult more than 1 dropper
- Side Effect : Diarrhea







Definition:

Lesion with or without itching with different shape

Tinea classified according to site into:

- 1-Tinea Capitis
- 2- Tinea Barbae
- 3-Tinea Corporis (Ring Worm)
- 4-Tinea Versicolor
- 5-Tinea Manuum
- 6-Onchymycosis
- 7-Tinea Cruris
- 8-Tinea Pedis
- 9-Atheltic Foot



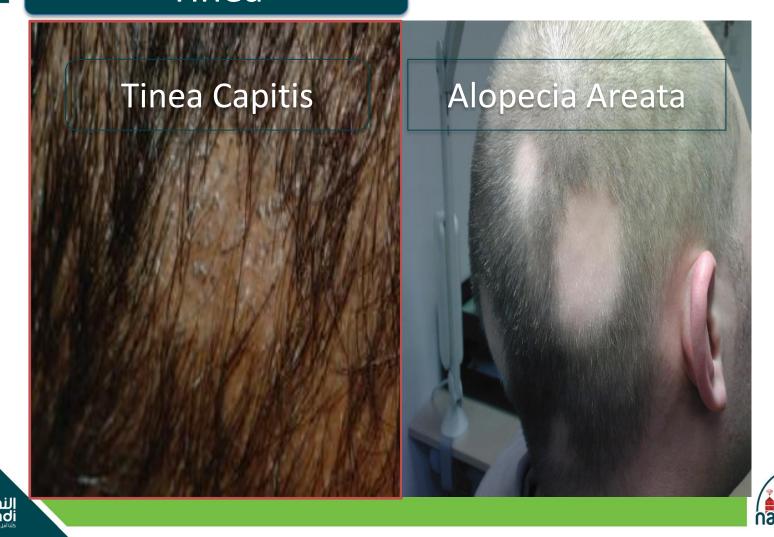


Differential Diagnosis:

	Tinea Capitis	Alopecia Areata
Broken Hair	Yes	Smooth
Scale	Yes	No
Itching	Yes	No
Spot(Redness, Brown)	Yes	No







Differential Diagnosis:

	Tinea Corporis	Eczema
Border	Yes	No
Faint Center	Yes	No
Complain cause	No	Yes

Take Care of Vit. A Deficiency











Differential Diagnosis:

	Tinea Cruris	Exfoliation
Cause	No	Abnormal movement
Odour	Yes	No
Change Color Of Skin	Yes	No





Differential Diagnosis:

	Tinea Versicolor	Vitiligo
Symptoms	Change Color Lighter Or Darker Than Normal Skin	Change in Color is Lighter Than Normal Skin Known as Meat Like Color











Differential Diagnosis:

	Onychomycosis	Psoriasis
Symptoms	Fragile Nail Opaque	Fragile Nail & Opaque & Another Patch in Other Site as Scalp











Lines Of Treatment

- 1- Cleansing
- Ex.Sulphur Salicylic Soap, Ketoconazol Shampoo
- 2- Topical Antifungal
- 3- Systemic Antihistamine
- 4- Systemic Antifungal

















Lines Of Treatment Of Tinea Capitis

The Same Lines Of Treatment Plus Advice The Patient Shaving The Hair

Lines Of Treatment Of Tinea Corporis

The Same Lines Of Treatment Plus Vit. A Supplement

Lines Of Treatment Of Tinea Versicolor

The Same Lines Of Treatment Except Systemic Antihistamine If Lighter Color Than Normal Skin Expose TO Sun





Lines Of Treatment Of Tinea Cruris

The Same Lines Of Treatment Plus Topical as Combination Of AF & Corticosteroid For Limited Time 5 Days Then Complete By Antifungal Only

Lines Of Treatment For Exfoliation:

One Topical Product as Combination Of AB & AF & Corticosteroid





Lines Of Treatment Of Tinea Pedis

- 1- Separator
- 2-Cleansing & Dryness
- **3-Topical Antifungal**

The Sequence Of Efficiency According To Dosage Form

Powder>Spray>Solution >Gel > Cream

Avoid Of Ointment Dosage Form

- 4-Antihistamine
- 5-Systemic Antifungal
- 6-IF Reach To Wound Stage used AB
- 7-IF Diabetic Patient Must Be Referral





Lines Of Treatment Of Onychomycosis

The Best Choice Of Drug: Loceryl once or twice weekly

Duration Of Treatment: 3-6 Months

Referral Case





Lines Of Treatment Of Manuum (Wife Hand dermatitis) as diaper rash treatment

- 1- Cleansing (Soap less Soap Free From Detergent)
- 2- Antifungal (Combination)
- 3- Soothing & Enhance The Healing
- Ex. Dexapanthenol (Bepanthen®), Scabio Cicative
- 4- Systemic Antihistamine (Telfast®)
- 5- Medical Gloves (Allederm)



Add Value For All Type Of Tinea

1-Personal Hygiene

2- Wash Cloth in Hot Water

3- Immuno-Stimulant (Echinacea)





Add Value For Tinea Cruris

As before plus whiting for sensitive area

Add Value For Onychomycosis

As before plus nail tonic as Cysteine & B6

Add Value For Tinea Versicolor

As before plus unify color as suntan, foundation





Acne Preparation

Exfoliate

Less Exfoliate
High
Antibacterial

Antibacterial





Adapalene Less Irritant & Less Photosensitivity

Adapalene
Differin Gel®

Tretinoin
Retin-A®Gel, Cream

Azelic Acid Skinoren®

Exfoliate

α-Hydroxy acid

Isotretinoin
Isotrexin®

Salicylic Acid

Isotretinoin Oral as Roaccutane®, Curacne®, Xeractane®





Wrinkle

Dark Spot

Acne

Applications Of Exfoliate

Seborrhea

Renewal Of Skin Ingrowing Hair





Counselling:

- 1-Avoid Sun Exposure
- 2-Prefer To Used At Night
- (in the morning clean the site of application & used sun block)
- 3- For Sensitive Skin: Choice Low Irritant Drugs & Gradually Application & Add Moisturizer
- 4-Avoid in Inflamed Acne (redness area) & not effective (used AB & Corticosteroid in The First Then used Exfoliate)
- 5-Avoid in Pregnant & Breast Feeding
- N.B Azelic Acid, Hydroxy Acid Can used in Pregnant
- 6-Hypersenstivity Test





Benzyl Peroxide



Gel, Solution, Cream

Less Exfoliate High Antibacterial

Benzac Ac[®] 2.5,5,10

The Same Counselling Of Exfoliate





Antibacterial

Clindamycin
Lotion (Dry),Soln.(Oil
skin),Gel (Dry & OIL)
Dalacin-T®

Erythromycin Erysol ®

Fusidic Acid Fucidin®

Metronidazole Rozex®





Acne Vulgaris

Def.

Common chronic skin disease involving blockage and /or inflammation of pilosebaceous units (hair follicle & sebaceous gland this lead to the acne appear as Non inflamed acne , inflamed acne Mixture of both

Acne vulgaris has multifactorial pathogenesis as

Site: affected mostly, the face, back, shoulder,

Age: mostly puberty age

Genetics: hereditary factor has huge effect





Factor Affect On Acne & patient counseling

- 1-Age
- 2-Comodon (White & Black Head) in sever case need referral
- 3-Site (Face , Shoulder , Back)
- 4 -Avoid Types Of Food (Spicy , Chocolate)
- 5-Menses (During Menses)
- 6 -Increase Vegetable & omega 3 containing food improve s the healthy state





Management Of Non-Inflamed Acne:

- 1-Cleansing
- 2-Peeling
- **3-Local Antibiotic**
- 4-Systemic Antibiotic. as
- Cephalosporin , Macrolide
- 5-Suitable Sun Screen





Management Of Inflamed Acne:Refrral

1-Cleansing (Avoid Scrub)

2-Local Antibiotic

3-Systemic Antibiotic

Ex. Cephalosporin, Macrolide

4- systemic tretinoin by physician

5-Suitable Sun Screen







Rosacea

Definition:

Acne Like Lesion With Erythema The disease is chronic; control rather than cure is the goal of therapy

Factor Affect On Rosacea:

1-Herdatiry

2-Enviromental

3-Age (Middle Age & Older)

Site:

Nose ,Eye Lid & Check



Rosacea rash





Rosacea

Treatment Of Rosacea:

- Clindamycin
- Metronidazole
- Benzyl Peroxide







Non OTC Drugs For Acne

Include:

1-Systemic Isotretinoin (Roaacutane, Xeractan, Curacne)



2-Anti-Androgen Drugs





Non OTC Drugs For Acne

1-Systemic Isotretinoin

- One Of Red Category
- Dispensed By Prescription Only
- Daily Maximum Dose 80-120 mg
- The Daily Dose (0.25 0.5 1) mg /Kg /Day
- Side Effect Of Isotretinoin
- 1-Dryness (Eye , Lip , Mouth ,.....)
- 2-Liver Enzyme Higher Than Normal
- 3-Intracrainal Pressure Increase (Headache)
- 4-Psychatric Symptoms
- Contra-Indicated

Pregnant & Planning For Pregnancy Category X







5-Local Vaginal Wash 1-Local Antifungal Vaginal Preparation

Preparation Preparation

Local Vaginal Preparation

3-Local
Antiprotozoal
Vaginal
Preparation

2-Local
Antibacterial
Vaginal
Preparation





1-Local Antifungal Vaginal Preparation

1-Miconazol (Gynodaktrin ®400,1200mg)



- 2-Econazol (Pevaryl®)
- 3-Clotrimazol (Canesten ®0.1, 0.5 mg) Category B in Pregnant
- 4-Fenticonazol(Gynolemoxin)

5-Isoconazol (Travocort ® Topical External)







2-Local Antibacterial Vaginal Preparation

- Clindamycin(Dalacin®2%Vaginal Cream)
- Treat Aerobic & Anaerobic Bacteria & Chlamydia







3-Local Antiprotozoal Vaginal Preparation

Metronidazole (Amrizol Vaginal Suppository)



 Systemic Antiprotozoal : a-Metronidazole (Flagyl ®) b-Tinidazol (Fasygin)







4-Local Antiseptic & astringent Vaginal Preparation

- Policresulin (Albothyl Vaginal Suppository)
- Astringent (Cervicovaginal Ulcer)
- Antiseptic
- Vaginal Tissue Return To Normal Size







5-Local Vaginal Cleansing Preparation

- a. Vaginal Cleansing For Limited Use (5 Days)
- Misuse of this type cause negative effect on vaginal normal flora
- This Type has germicidal effect
- Avoid Vaginal Pump to avoid ascending infection
- Avoid during pregnant
- Example : Povidin Iodine as povei , betadine
- b. Vaginal Cleansing For long Use
- No Effect on vaginal normal flora
- Example: deosept, lactacid, rosa, sebamide feminin wash, vagisil, Extra-X (Special For Pregnant)





Differential Diagnosis

Trichomonus

Bacterial

Fungal

Yellow – Green Discharge

White – Yellow Discharge

White Cheesy Discharge

Bad Odour

Mal Odour

Mild Odour

Mild Itching

Mild Itching

Sever Itching

Predicted With Sexual Intercourse

Predicted in Post
Menopausal

Predicted in Young Ages





Different Lines Of Treatment For Vaginitis

Lines Of Treatment Of Fungal Vaginitis

- 1-Cleansing
- Germicidal For 5 Days
- Continuous By Other One
- 2-Local Antifungal
- Ex.Gynodaktrin supp. Or cream
- 3-Topical Corticosteroid With Antifungal
- Ex.Elica M or daktacort
- 4-Systemic Antihistamine
- 5-Systemic Antifungal





Different Lines Of Treatment For Vaginitis

Lines Of Treatment Of Trichomonus

- 1-Cleansing
- Germicidal For 5 Days
- Continuous By Other One
- 2-Amrizol Vaginal Suppository
- 3-Fasygin (4 Tablet One Shot)

Lines Of Treatment Of Bacterial Vaginitis

- 1-Cleansing
- 2-Dalacin Vaginal Cream
- 3-Azithromycin (4 Cap One Shot)





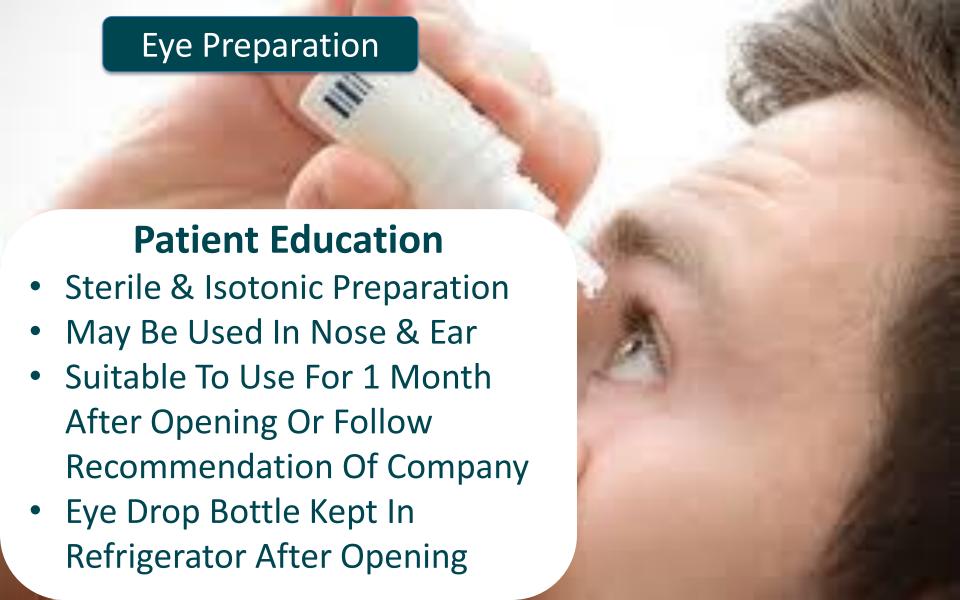
Different Lines Of Treatment For Vaginitis

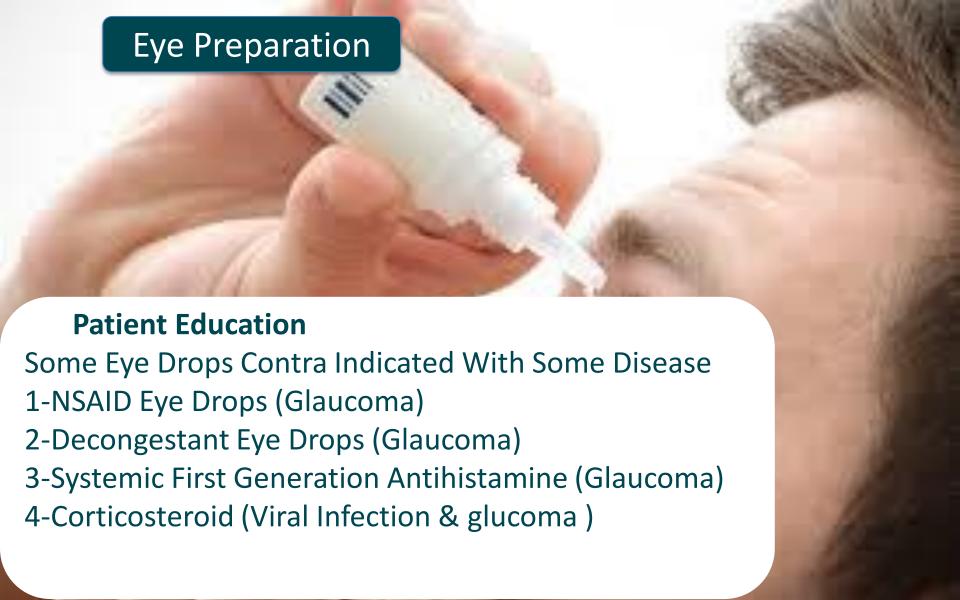
Add Value (Patient Education)

- 1-Cleansing for husband as leocrema wash
- 2-Condom for husband
- 3-Dose Of Drugs Mainly In Trichomonus
- N.B pregnancy & chlamydial infection referral











Eye Drop - All Single Unit Dose Preservative Drops)



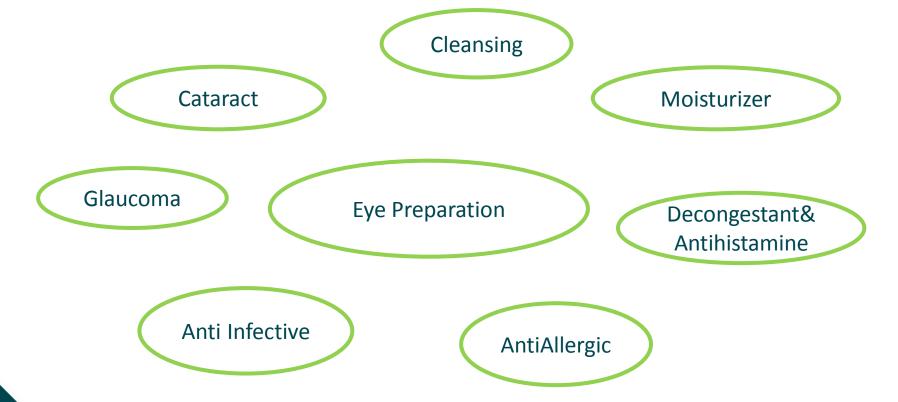
















1-Cleansing Eye Drops

- Boric Acid
- Normal Saline
- Moisturizer







2-Moisturizer Eye Drops

- <u>Different Application</u>:
- ✓ Dry Eye
- ✓ Cleansing
- ✓ With Lenses
- ✓ Allergic Conjunctivitis
- ✓ Presence Of Foreign Bodies
- ✓ Control Side Effect Of Some Medication
- ✓ After Lasik Surgery
- ✓ After Reading & Watching T.V







2-Moisturizer Eye Drops

Long Acting Moisturizer as Celluvisc



- During Wear The Lenses Avoid Ointment & Other High
 Viscous Moisturizer except recommended from company
- Fast Action Moisturizer as Hyaluronic Acid(Hylocomod)
- Recapped Seal as Optive







3-Decongestant & Antihistamine

- Act On Smooth Muscle as Vasoconstriction & Decrease Redness
- Ex. Of Decongestant Naphazoline, Tetrazoline, phenylphrene ...
- Avoid In Glaucoma & used limited time
- Antihistamine as Pheniramine ,Antazoline & Naphz











4-Antiallergic Eye Drop

- a. Corticosteroid (Not OTC Drug)
- Ex. Pred Forte , FML , Optilone , Vexol (Ramixolone), Fluca
- Dexamethasone combination (Tobradex®) or mixdex
- Corticosteroid has Anti-inflammatory, Ant allergic
- Avoid In Glaucoma Patient













4-Antiallergic Eye Drop

- b. Non Corticosteroid
- ✓ H1- Blocker
- Ex. Levocabastine (Livostin ®), Epinastine (Relestat®)
- ✓ H1- Blocker & Mast Cell Stabilizer
 Ex. Ketotifen (Zaditen ®)
- ✓ Mast Cell Stabilizer
- Ex. Sodium Cromoglycate (Croma, Apicrom)
- ✓ Control most mediator (esinophil control,
 Prostaglandin antagonist & mast cell stab.
- Ex. Olopatadine (Olopat, Patanol, Pataday)









5-Antiinfective Eye Drop

A- Fusidic Acid (Optifucin, Fucithalmic)



B- Quinolone

C- Antiviral





5-Eye Drop For Glaucoma Definition of Glaucoma:

Increase Intraocular Pressure Can Damage The Optic Nerve Glaucoma Without Treatment Cause Permanent Loss Of Vision

Glaucoma Types:

1-Angle Closure Glaucoma.... Poor Drainage Of Aqueous Humor Is Caused Because The Angle Between Iris & Cornea Is Too Narrow Which Lead To Sudden Pressure In The Eye Easily Diagnosed ..Eye Pain , Headache ,Blurred Vision , Vomiting ,
2-Open Angle Glaucoma Difficult To Be Diagnosed





5-Eye Drop For Glaucoma Who Get Glaucoma & C. I drugs with glucoma?

- Are Over Age 40
- Have A Family History Of Glaucoma
- Have Diabetes
- C.I with glaucoma As Decongestant, NSAID, Corticosteroid., high anticholinergic drugs, Mydriasis eye drops





5-Eye Drop For Glaucoma Drugs Of Glaucoma:

1-B-Blocker: Such As

- Timolol .. Timpitol, Apimol , Optim
- Betaxolol .. Betoptic
- Levobunolol .. Betagan

2- α2 Agonist

• Brimonidine .. Alphagan , Brimo









5-Eye Drop For Glaucoma Drugs Of Glaucoma:

3-Mitotic Preparation:

- Pilocarpine ...Apicarpine
- 4-Carbonic Anhydrase Inhibitor
- Dorzolamide .. Trusopt , Xola





COSOPT

- Dorzolamide & Timolol .. Cosopt , Xolamol
- Brinzolamide .. Azopt
- Brinzolamide & Timolol .. Azarga





5-Eye Drop For Glaucoma Drugs Of Glaucoma:

5-Prostaglandin Analogues

Latanoprost .. Xalatan , Latano



- Latanoprost & Timolol .. Xalacom
- Travoprost .. Travatan
- Travoprost & Timolol .. Duotrav
- Bimatoprost .. Lumigan (Prolong Eye Lash)
- Bimatoprost & Timolol .. Ganforte









5-Eye Drop For Glaucoma Mydriatic Eye Drop

• Atropine ..Riatropine

Cataract Eye Drop

• Catalin ®

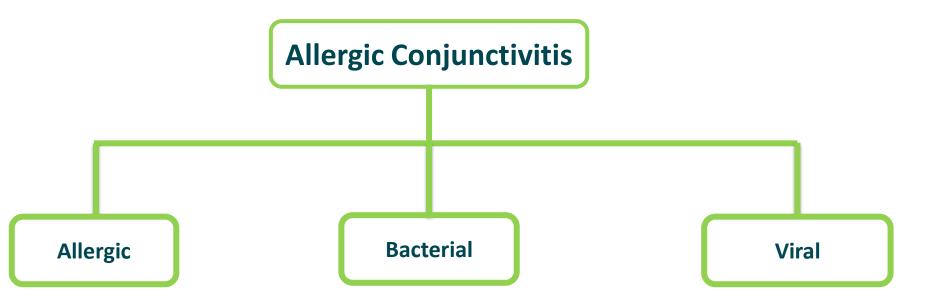




Cases











Differential Diagnosis

Allergic

Bacterial

Viral

Discharge

Little & Watery

Purulent

Plenty & Watery

Eye Pain

Sever & gritty

Sever & gritty

Itching

sever Itching

mild

mild

Corneal Affect By Light

++

+

+++++

Accompanied With

Seasonal & Genetic

Contamination

Viral Disease As Common Cold









Lines Of Treatment Of Allergic Conjunctivitis:

- 1-Decongestant & Antihistamine Eye Drop For limited time
- 2-Antiallergic Eye Drop
- Long Term But Low Frequency Of Dose
- Ex. Livostin, Zaditen, Apicrom
- 3-Emollient & Moisturizer (Prefer Preservative Free)
- 4- Systemic Antihistamine
- 5-Local NSAID
- 6-Support Treatment Cold Compression











Lines Of Treatment Of Red Infected Conjunctivitis:

Avoid Corticosteroid

- 1-Cleansing Ex.Normal Saline
- 2-Topical Antibiotic Ex.Fucithalmic
- 3-Decongestant With Antihistamine Or Local NSAID
- 4-Systemic NSAID
- 5-Systemic Antibiotic Ex. Azithromycin
- 6-Support Warm Compression (Improve Circulation)









Lines Of Treatment Of Swollen Eye Lid:

1-Local & Systemic Antibiotic

2-NSAID

After One Day If Not Improved Must Referral





Lines Of Treatment Of Redness after trauma:

- 1-Moisturizer
- 2-Decongestant

If Patient Suffer From Glaucoma Or Diabetic Must Be Referral

In Case Redness after trauma

Moisturizer Only & Referral









Lines Of Treatment Of Crusty Eye Lid:

- 1-Cleansing
- 2-Local Antibiotic
- 3-Systemic Antibiotic
- 4-NSAID





Lines Of Treatment Of Pain due to welding (عامل لحام):

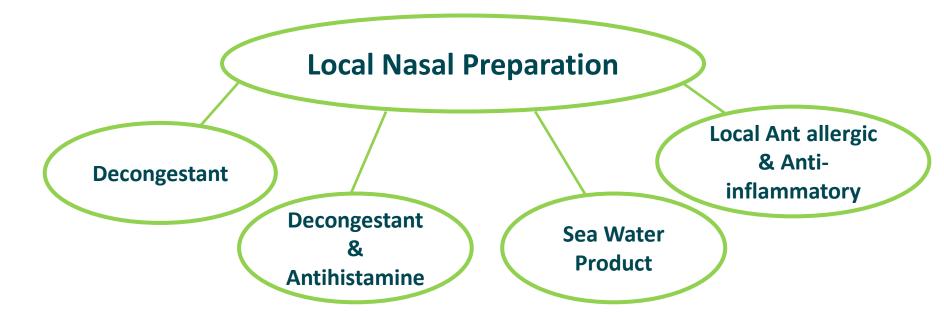
- 1-Local Anesthesia
- 2-Local NSAID
- 3-Moisturizer
- 4-Systemic NSAID

Other cases as foreign body in the eye, dry eye different symptoms













1-Decongestant:

Act On Smooth Muscle as Vasoconstrictor Which Decrease Blocking & Swelling (Rapid & Strong Effect)

Ex.Xylometazoline....Otrivin





Ex.Oxymetazoline....Navisin





Otrivin menthol: contain also menthol & sorbitol

- Menthol increase the effect
- Sorbitol decrease the dryness







2-Decongestant & Antihistamine:

• Dimethindene & Phenylephrine ... Vibrocil ®









- Advantage: Prefer In Acute State, Strong Effect
- Disadvantage:
- Rebound Effect By Misuse (Continuous Application)Which Lead To Rhinitis Medicamentosa (Stop Use & Use Local Moisturizer
)
- Ex.Drossa-Nose , Glistin

Decongestant nasal preparation C.I in the following

<u>:</u>

- 1-Hypertension
- 2-Pregnant
- 3-Baby Less Than 1 Year





3-Sea Water:

- Prefer In Hypertensive patient , Baby , Pregnant
- Used As Nasal Irrigation as (Alkaline Nasal Irrigation, Normal Saline)
- Ex.Ocean , Physiotherm , Sinoclear
- Specific For Child & Adult
- Isotonic Or Hypertonic











4-Antiallergic:

Divided Into:

A-Corticosteroid

B-Non-Corticosteroid

A-Corticosteroid Nasal Preparation:

- Potent Local , Less Systemic Effect
- Has Anti-inflammatory Effect Beside Ant allergic Effect
- In Case Infected Rhinitis used Corticosteroid Nasal Preparation With Antibiotic not used alone





4-Antiallergic:

Divided Into:

A-Corticosteroid

B-Non-Corticosteroid

A-Corticosteroid Nasal Preparation:

- Potent Local , Less Systemic Effect
- Has Anti-inflammatory Effect Beside Antiallergic Effect
- In Case Infected Rhinitis used Corticosteroid Nasal Preparation With Antibiotic





4-Antiallergic:

A-Corticosteroid Nasal Preparation:

- Fluticasone PropionateFlixonase (Long Duration)
- Fluticasone Furoate Avamys (Rapid Onset)
- BudesonideRhinocort Aqua (Pregnant Class B)
- Mometasone (Nasonex , Tasonex , ...)
- Beclomethasone (Rhinoclinil) (More Systemic Effect)

Disadvantage:

- 1-Dryness Mucosa
- 2-Some Bleeding Spot In The First Only
- 3-Change In Smell







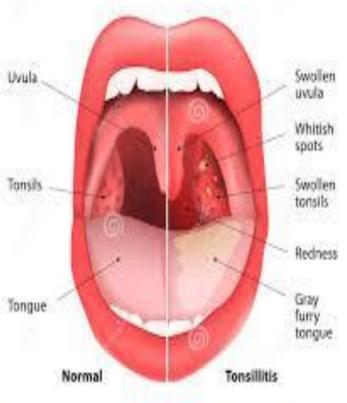


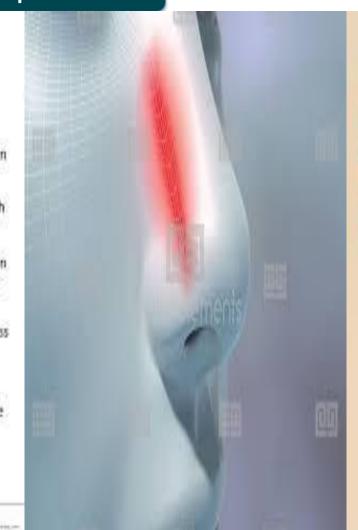
Cases





BACTERIAL TONSILLITIS











Case 1

Patient Suffer From Rhinorrhea(Prenasal Discharge), Sneezing, Nasal Itching, Only In Nasal Cavity (Pain& Irritation)





- Diagnosis : Rhinitis
- Differential Diagnosis Between Allergic Rhinitis & Infected Rhinitis

	Infected	Allergic
Discharge	Purulent	Watery
Color	Change	Clear
Odor	Change	
Cause	Organism	Dust ,
Itching		Sever
Fever	Sever	





- Lines Of Treatment Of Allergic Rhinitis
- 1-Systemic Decongestant With Antihistamine
- Ex.Clarinase, Cirrus
- For Limited Time & Continuous By Antihistamine Only
- 2-Local Decongestant
- 3-Local Ant allergic
- 4-Systemic Anti allergic as Antihistamine, Mast Cell Stabilizer
- Ant leukotriene, Corticosteroid
- 5-Remove The Cause





- Lines Of Treatment Of Infected Rhinitis (usual has pain)
- 1-Antibiotic
- 2-NSAID
- 3-Avoid Ant allergic Weather Local & Systemic
- 4-Local Decongestant & Antihistamine
- 5-Systemic Decongestant & Antihistamine





- Patient Suffer From :
- Continuous Headache & Heavy Head
- Dizziness
- Facial Pain
- Nasal Discharge (Post Nasal Discharge)
- Loss Of Smell
- Sever Block
- Sever Snoring





- Diagnosis : Sinusitis
- May Be Allergic Or Infected
- 3 Main Lines of Treatment Of Sinusitis
- 1-Mucolytic
- 2-Irrigation
- 3-NSAID





- Knowledge About Sinusitis
- 1-Sinusitis is an inflammation of paranasal sinuses
- 2-Sinuses Are Filled With fluid instead of air But
- When Sinuses Become Blocked By Fluid Lead
- to (Heavy head)





- Other Lines Of Treatment For Sinusitis
- 1-Systemic Decongestant & Antihistamine
- 2-Local Decongestant
- 3-Local Ant allergic
- 4-Systemic Anti allergic





Patient Education:

- Nasal Cavity Should Be Clean & Open By Nasal Irrigation
- Drink Plenty Of Fluid
- Immuno-Stimulant
- Decongestant & Chewing Gum

(خاصه في المناطق المرتفعه مثل الطيران)

- Snoring Strip
- Inhaled Vicks
- Mask (Protect Against Dust)





Case 4:

- Patient Suffer From :
- 1-Sneezing
- 2-Stuffy Nose
- 3-Watery Eye
- 4-Mucous Drainage Into Throat
- 5-Hacking & Productive Cough
- 6-Pain In Pharyngeal cavity (throat)





Case 4:

- Diagnosis : Common Cold
- Lines Of Treatment Of Common Cold
- 1-Local Decongestant
- 2-Systemic Decongestant & Antihistamine
- 3-Local Antiseptic & Soothing
- 4-Suitable Cough Syrup
- 5-NSAID
- 6-Volatil Oil Vapor
- 7-Systemic Antibiotic (To Control Secondary Infection)
- Add Value
- 1-Vit.C 2- Plenty Fluid





Case 5:

- Patient Suffer From :
- 1-Sneezing
- 2-Runny Nose
- 3-Headache
- 4-Cough
- 5-Fatigue
- 6-Fever (Not Exceed 38.5)
- 7-Sore Throat





Case 5:

- Diagnosis : Pharyngitis
- Pharyngitis Is Viral Infection
- Lines Of Treatment Of Pharyngitis:
- 1-Avoid Start With Antibiotic Mainly Viral Infection
- 2-Mouth Wash (Gargle)
- 3-Local Antiseptic & Soothing
- 4-Systemic Anti inflammation Drug
- 5-If Irritation Or Mucous .. Mucolytic
- In Case Not Treated Within From 2-3 Days
- 6-Systemic Antibiotic
- If Change In Voice (Laryngitis)
- The Same Lines & Add Vapor





Case 6:

- Patient Suffer From :
- 1-Throat Pain
- 2-Redness Of Tonsil
- 3-Difficulty Of Swallowing
- 4-Sever Fever & Repeat
- 5-Enlarge Lymph Node





Case 6:

- Diagnosis : Tonsillitis
- Lines Of Treatment Of Tonsillitis
- 1-Systemic Antibiotic
- By Maximum Dose & Complete Course
- 2-Mouth Wash (Gargle)
- 3-NSAID
- Tonsillectomy :
- 1-Repeated More Than 5 Times Per Year
- 2-Pain In Joint
- 3-Follicular i.e. (With Pus)
- 4-Age Above 4 Years





Case 7:

- Patient Suffer From:
- 1-Cough
- 2-Production Of Mucous Which Can Clear, White Or Green
- In Color, With Or Without Of Blood
- 3-Slight Fever & Chills
- 4-Fatigue





Case 7:

- Diagnosis: Bronchitis
- When To Referral:
- 1-Last More Than 3 Weeks
- 2-Prevent From Sleeping
- 3-Fever Higher Than 38 c°
- 4-Produce Blood
- 5-Produce Discolor Mucous
- Lines Of Treatment :
- 1-Systemic Antibiotic
- 2-Suitable Cough Syrup
- 3-Bronchodilator (Relief The Breath , Help Cilia To Removal Mucous
- 4-Antihistamine

Rozex:

- Active Ingredient : Metronidazole
- Indication: Rosacea , Acne



Daivonex:

- Active Ingredient : Calcipotriol (Derivative Of Vit.D)
- Indication: Psoriasis (Regulate Cell Proliferation)
- Dose: Thin Layer Twice Daily



Daivobet:

- Active Ingredient : Calcipotriol With Betamethasone
- Best Dosage Form For Hairy Area Is Gel





Aldara Sachet:

- Active Ingredient : Imiquimod
- Indication: All Types Of Warts(Viral, Genital External Wart)
- Dose: Once Daily (Do Not Wash Before 8 Hours From Application)
- Day Per Day Or Daily & Rest 2 days
- Duration Of Treatment :4-16 Weeks
- Side Effect : Burn
- Patient Education : Do Not Touch Mucous







Wartec:

- Active Ingredient : Podophyllotoxin
- Indication: External Genital Wart
- Dose: Twice Daily For 3 Days & Repeated After 7 Days







Nasodren:

- Active Ingredient: 100% natural product, based on Cyclamen Europaeum extract.
- Indication: Sinusitis Symptoms (Liquefy Of Mucous Locally)
- Dose : Once Daily







Camuvir:

- Active Ingredient : Iota Carrageenan, Limonum Extract
- Indication: Antiviral
- Dose: 3-4 Times Daily







Allerbar:

- Indication: Allergic Rhinitis
- Mechanical Protection Of Nasal Mucous By Prevent Contact With Pollen ,Dust ,....
- Dose: 3-4 Times Daily





Thank You

Prepared By: Medhat

